



UNM LEARN

M David Kirby

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## Take Test: Quiz 1.1

### Test Information

Description

Instructions

Multiple Attempts This test allows multiple attempts.

Force Completion This test can be saved and resumed later.

### Question Completion Status:



### QUESTION 1

1 points

Saved

*Click Save and Submit to save and submit. Click Save All Answers to save all answers.*

- ☐ Mechanical systems, but not electrical systems
- ☒ Almost any engineering system
- ☐ Engineering systems that have a lot of computational power

### QUESTION 2

1 points

Saved

Control systems are used when:

- ☒ Some quantity must be made to behave in a desirable manner
- ☐ Models of physical processes are highly accurate
- ☐ Humans make too many mistakes

- ☐ There are inadequate resources for sensing or actuation

**QUESTION 3****1 points****Saved**

A core element of any control system is feedback. Which one of the following statements most closely describes feedback?

- ☐ Actual behavior is compared with desired behavior, but no corrective action is taken.
- ☐ Actual behavior determines corrective actions.
- ☒ Actual behavior is compared with desired behavior, and corrective action is taken based on the difference.
- ☐ Desired behavior determines corrective actions.

**QUESTION 4****1 points****Saved**

Which of the following best describes the use of feedback in an HVAC system?

- ☐ The actual temperature is compared to the desired temperature, and heating is applied for 3 minutes
- ☒ The actual temperature is compared to the desired temperature, and heating or cooling is applied based on the difference
- ☐ The desired temperature is set, and heat or cooling is applied for 5 minutes
- ☐ The desired temperature is adjusted repeatedly by the human operator